



National
Library
of Medicine NLM

Entrez	PubMed	Nucleotide	Protein	Genome	Structure	OMIM	PMC	Journals	Box	
Search <input type="text" value="PubMed"/>				<input type="checkbox"/> for <input type="text"/>	<input type="button" value="Go"/>	<input type="button" value="Clear"/>				
		Limits	Preview/Index		History	Clipboard		Details		
		<input type="button" value="Display"/>	<input type="button" value="Abstract"/>	<input type="checkbox"/> Show: <input type="text" value="20"/>	<input type="button" value="Sort"/>	<input type="button" value="Send to"/>	<input type="button" value="Text"/>			

About Entrez

[Text Version](#)

1: Am J Trop Med Hyg. 1994 Aug;51(2):224-32.

[Related Articles](#), [Links](#)

Entrez PubMed
Overview
Help | FAQ
Tutorial
New/Noteworthy
E-Utilities

PubMed Services
Journals Database
MeSH Database
Single Citation Matcher
Batch Citation Matcher
Clinical Queries
LinkOut
Cubby

Related Resources
Order Documents
NLM Catalog
NLM Gateway
TOXNET
Consumer Health
Clinical Alerts
ClinicalTrials.gov
PubMed Central

Selection of different strains of *Plasmodium falciparum* for testing blood-stage vaccines in *Aotus nancymai* monkeys.

Collins WE, Galland GG, Sullivan JS, Morris CL.

Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, Georgia.

Three strains of *Plasmodium falciparum*, Vietnam Oak Knoll (FVO), Uganda Palo Alto (Hawaii) (FUP-H) and Uganda Palo Alto (Cayenne) (FUP-C), were examined in 154 *Aotus nancymai* monkeys as suitable models for testing blood-stage vaccines. The Vietnam Oak Knoll strain had the greatest number of animals with maximum parasite counts > 200,000/microliters. Uniformity of the parasitemia curve increased from passage 4 to passage 6 with an accompanying decrease in the number of days required to reach maximum parasitemia or required treatment. The Uganda Palo Alto (Hawaii) strain was highly infectious, but many animals had extended prepatent periods and extended days to maximum parasitemia. The FUP-H strain would require a greater number of animals per test group to detect partial protection because of the greater number of low-density maximum parasite counts in control animals. The Uganda Palo Alto (Cayenne) strain was poorly adapted to intact *A. nancymai*. However, five of six splenectomized monkeys inoculated during passage 6 with 10(5) parasites had maximum parasite counts > 200,000/microliters. For the testing of vaccines against primary parasitemia in the *A. nancymai* model system, the FVO at passage 4 level would appear preferable to passage 6 parasites following a challenge with 10(5) parasites. A similar pattern could be obtained using FUP-H if the challenge was 10(6) parasites. To measure immune memory against recrudescence or rechallenge infection, FUP-C at an early passage in splenectomized *A. nancymai* would appear to be the appropriate model.

PMID: 8074257 [PubMed - indexed for MEDLINE]

<input type="button" value="Display"/>	<input type="button" value="Abstract"/>	<input type="checkbox"/> Show: <input type="text" value="20"/>	<input type="button" value="Sort"/>	<input type="button" value="Send to"/>	<input type="button" value="Text"/>
--	---	--	-------------------------------------	--	-------------------------------------

[Write to the Help Desk](#)
NCBI | NLM | NIH

  National Library of Medicine NLM

Entrez PubMed Nucleotides Protein Genome Structure OMIM PMC Journals Bookmarks

Search PubMed for **FVO and malaria**

Limits Preview/Index History Clipboard Details

Display Summary Show: **20** Sort Send to Text

Items 1 - 20 of 23 **1** of 2 Next

1: Carvalho L.J., Alves F.A., de Oliveira S.G., do Valle Rdel R., Fernandes A.A., Muniz J.A., Daniel Ribeiro C.T.

Severe anemia affects both splenectomized and non-splenectomized Plasmodium falciparum-infected Aotus infulatus monkeys.
Mem Inst Oswaldo Cruz. 2003 Jul;98(5):679-86. Epub 2003 Sep 08.
 PMID: 12973537 [PubMed - indexed for MEDLINE]

2: Jones TR., Stroneck DF., Gozalo A.S., Obaldia N. 3rd., Andersen E.M., Lucas C., Narum D.L., Magill A.J., Sin B.K., Hoffman S.L.

Anemia in parasite- and recombinant protein-immunized aotus monkeys infected with Plasmodium falciparum.
Am J Trop Med Hyg. 2002 Jun;66(6):672-9.
 PMID: 12224573 [PubMed - indexed for MEDLINE]

3: Kocken C.H., Withers-Martinez C., Dubbeld M.A., van der Weij A., Hackett F., Valderrama A., Blackman M.J., Thomas A.W.

High-level expression of the malaria blood-stage vaccine candidate Plasmodium falciparum apical membrane antigen 1 and induction of antibodies that inhibit erythrocyte invasion.
Infect Immun. 2002 Aug;70(8):4471-6. Erratum in: *Infect Immun.* 2002 Oct;70(10):5901.
 PMID: 12117958 [PubMed - indexed for MEDLINE]

4: Chambers D.R., Procter J., Muratova O., Byrne K., Keister D., Shanks D., Magill A., Stroneck D.

In vitro RBC exposure to Plasmodium falciparum has no effect on RBC antigen expression.
Transfus Med. 2002 Jun;12(3):213-9.
 PMID: 12071878 [PubMed - indexed for MEDLINE]

5: Stowers A.W., Chen L.H., Zhang Y., Kennedy M.C., Zou L., Lamberti L., Rice T.J., Kaslow D.C., Saul A., Long C.A., Meade H., Miller L.H.

A recombinant vaccine expressed in the milk of transgenic mice protects Aotus monkeys from a lethal challenge with Plasmodium falciparum.
Proc Natl Acad Sci U S A. 2002 Jan 8;99(1):339-44. Epub 2001 Dec 18.
 PMID: 11752405 [PubMed - indexed for MEDLINE]

6: Jones TR., Obaldia N. 3rd., Gramzinski R.A., Hoffman S.L.

Repeated infection of Aotus monkeys with Plasmodium falciparum induces protection against subsequent challenge with homologous and heterologous strains of parasite.
Am J Trop Med Hyg. 2000 Jun;62(6):675-80.
 PMID: 11304053 [PubMed - indexed for MEDLINE]

7: Narum D.L., Haynes J.D., Fuhrmann S., Moch K., Liang Y., Hoffman S.L., Sin B.K.

 Antibodies against the *Plasmodium falciparum* receptor binding domain of EBA-175 block invasion pathways that do not involve sialic acids.
Infect Immun. 2000 Apr;68(4):1964-6.
PMID: 10722589 [PubMed - indexed for MEDLINE]

 8: [Keitel WA, Kester KE, Atnar RL, White AC, Bond NH, Holland CA, Krzych U, Palmer DR, Egan A, Diggs C, Ballou WR, Hall BE, Kaslow D.](#) Related Articles, Link

 Phase I trial of two recombinant vaccines containing the 19kd carboxy terminal fragment of *Plasmodium falciparum* merozoite surface protein 1 (msp-1(19)) and T helper epitopes of tetanus toxoid.
Vaccine. 1999 Oct 14;18(5-6):531-9.
PMID: 10519944 [PubMed - indexed for MEDLINE]

 9: [Gozalo A, Lucas C, Cachay M, Weidle BT, Hall T, Bell B, Wood J, Watts D, Wooster M, Lyon JA, Moch JK, Haynes JD, Williams JS, Holland C, Watson E, Kester KE, Kaslow DC, Ballou WR.](#) Related Articles, Link

 Passive transfer of growth-inhibitory antibodies raised against yeast-expressed recombinant *Plasmodium falciparum* merozoite surface protein-1 (19).
Am J Trop Med Hyg. 1998 Dec;59(6):991-7.
PMID: 9886211 [PubMed - indexed for MEDLINE]

 10: [Fandeur T, Chalvet W.](#) Related Articles, Link

 Variant- and strain-specific immunity in Saimiri infected with *Plasmodium falciparum*.
Am J Trop Med Hyg. 1998 Feb;58(2):225-31.
PMID: 9502608 [PubMed - indexed for MEDLINE]

 11: [Hui GS, Nikaido C, Hashiro C, Kaslow DC, Collins WE.](#) Related Articles, Link

 Dominance of conserved B-cell epitopes of the *Plasmodium falciparum* merozoite surface protein, MSP1, in blood-stage infections of naive Aotus monkeys.
Infect Immun. 1996 May;64(5):1502-9.
PMID: 8613353 [PubMed - indexed for MEDLINE]

 12: [Waters AP, White W, McCuicchan TE.](#) Related Articles, Link

 The structure of the large subunit rRNA expressed in blood stages of *Plasmodium falciparum*.
Mol Biochem Parasitol. 1995 Jun;72(1-2):227-37.
PMID: 8538692 [PubMed - indexed for MEDLINE]

 13: [Kumar S, Yadava A, Keister DB, Tian JH, Ohl M, Perdue Greenfield KA, Miller LH, Kaslow DC.](#) Related Articles, Link

 Immunogenicity and in vivo efficacy of recombinant *Plasmodium falciparum* merozoite surface protein-1 in Aotus monkeys.
Mol Med. 1995 Mar;1(3):325-32.
PMID: 8529111 [PubMed - indexed for MEDLINE]

 14: [Collins WE, Galland GG, Sullivan JS, Morris CL.](#) Related Articles, Link

 Selection of different strains of *Plasmodium falciparum* for testing blood-stage vaccines in Aotus nancymai monkeys.
Am J Trop Med Hyg. 1994 Aug;51(2):224-32.
PMID: 8074257 [PubMed - indexed for MEDLINE]

15: Hui GS, Hashimoto A, Chang SP. [Related Articles](#) [Link](#)
 Roles of conserved and allelic regions of the major merozoite surface protein (gp195) in immunity against *Plasmodium falciparum*.
Infect Immun. 1992 Apr;60(4):1422-33.
PMID: 1548068 [PubMed - indexed for MEDLINE]

16: Herrera S, Herrera MA, Certa U, Corredor A, Guerrero R. [Related Articles](#) [Link](#)
 Efficiency of human *Plasmodium falciparum* malaria vaccine candidates in *Aotus lemurinus* monkeys.
Mem Inst Oswaldo Cruz. 1992;87 Suppl 3:423-8.
PMID: 1343722 [PubMed - indexed for MEDLINE]

17: Rodriguez R, Moreno A, Guzman F, Calvo M, Patarroyo ME. [Related Articles](#) [Link](#)
 Studies in owl monkeys leading to the development of a synthetic vaccine against the asexual blood stages of *Plasmodium falciparum*.
Am J Trop Med Hyg. 1990 Oct;43(4):339-54.
PMID: 2240362 [PubMed - indexed for MEDLINE]

18: Herrera S, Herrera MA, Perlaza BL, Burk J, Caspers P, Dobeli H, Rotman D, Certa U. [Related Articles](#) [Link](#)
 Immunization of *Aotus* monkeys with *Plasmodium falciparum* blood-stage recombinant proteins.
Proc Natl Acad Sci U S A. 1990 May;87(10):4017-21.
PMID: 2187200 [PubMed - indexed for MEDLINE]

19: Stanley HA, Howard RE, Reese RT. [Related Articles](#) [Link](#)
 Recognition of a Mr 56K glycoprotein on the surface of *Plasmodium falciparum* merozoites by mouse monoclonal antibodies.
J Immunol. 1985 May;134(5):3439-44.
PMID: 3884711 [PubMed - indexed for MEDLINE]

20: Campbell CC, Chin W, Collins WE, Teutsch SM, Moss DM. [Related Articles](#) [Link](#)
 Chloroquine-resistant *Plasmodium falciparum* from East Africa: cultivation and drug sensitivity of the Tanzanian I/CDC strain from an American tourist.
Lancet. 1979 Dec 1;2(8153):1151-4.
PMID: 91887 [PubMed - indexed for MEDLINE]

Items 1 - 20 of 23

Page of 2 [Next](#)[Display](#) [Summary](#) Show: [Sort](#) [Send to](#) [Text](#)[Write to the Help Desk](#)[NCBI](#) | [NLM](#) | [NIH](#)[Department of Health & Human Services](#)[Privacy Statement](#) | [Freedom of information Act](#) | [Disclaimer](#)

Sep 10 2004 06:30:44



National
Library
of Medicine NLM

Entrez PubMed Nucleotides Protein Genome Structure OMIM PMC Journals Box

Search **PubMed** for **malaria and "apical membrane antigen"**

Go **Clear**

Limits

Preview/Index

History

Clipboard

Details

Quoted phrase not found.

See Details.

[About Entrez](#)

[Text Version](#)

[Entrez PubMed](#)

[Overview](#)

[Help | FAQ](#)

[Tutorial](#)

[New/Noteworthy](#)

[E-Utilities](#)

[PubMed Services](#)

[Journals Database](#)

[MeSH Database](#)

[Single Citation Matcher](#)

[Batch Citation Matcher](#)

[Clinical Queries](#)

[LinkOut](#)

[Cubby](#)

[Related Resources](#)

[Order Documents](#)

[NLM Catalog](#)

[NLM Gateway](#)

[TOXNET](#)

[Consumer Health](#)

[Clinical Alerts](#)

[ClinicalTrials.gov](#)

[PubMed Central](#)

Limits: Publication Date to 2000

Display

Summary

Show: 20

Sort

Send to

Text

Page

1

of 2 [Next](#)

1: [Blackman MJ.](#)

[Related Articles](#), [Link](#)

Proteases involved in erythrocyte invasion by the malaria parasite: function and potential as chemotherapeutic targets.

Curr Drug Targets. 2000 Jul;1(1):59-83. Review.

PMID: 11475536 [PubMed - indexed for MEDLINE]

2: [Triglia T, Healer J, Caruana SR, Hodder AN, Anders RF, Crabb BS.](#) [Related Articles](#), [Link](#)
Cewman AE.

Apical membrane antigen 1 plays a central role in erythrocyte invasion by Plasmodium species.

Mol Microbiol. 2000 Nov;38(4):706-18.

PMID: 11115107 [PubMed - indexed for MEDLINE]

3: [Urquiza M, Suarez JE, Cardenas C, Lopez R, Puentes A, Chavez E.](#) [Related Articles](#), [Link](#)
Calvo JC, Patarroyo ME.

Plasmodium falciparum AMA-1 erythrocyte binding peptides implicate AMA-1 as erythrocyte binding protein.

Vaccine. 2000 Oct 15;19(4-5):508-13.

PMID: 11027815 [PubMed - indexed for MEDLINE]

4: [Kocken CH, Nairn DL, Massougbodji A, Ayivi B, Dubbeld MA.](#) [Related Articles](#), [Link](#)
van der Wel A, Conway DJ, Sanni A, Thomas AW.

Molecular characterisation of Plasmodium reichenowi apical membrane antigen-1 (AMA-1), comparison with P. falciparum AMA-1, and antibody-mediated inhibition of red cell invasion.

Mol Biochem Parasitol. 2000 Jul;109(2):147-56.

PMID: 10960173 [PubMed - indexed for MEDLINE]

5: [Xu H, Hodder AN, Yan H, Crewther PE, Anders RF, Good MF.](#) [Related Articles](#), [Link](#)

CD4+ T cells acting independently of antibody contribute to protective immunity to Plasmodium chabaudi infection after apical membrane antigen 1 immunization.

J Immunol. 2000 Jul 1;165(1):389-96.

PMID: 10861076 [PubMed - indexed for MEDLINE]

6: [Noe AR, Fishkind DJ, Adams JH.](#) [Related Articles](#), [Link](#)

Spatial and temporal dynamics of the secretory pathway during differentiation of the Plasmodium yoelii schizont.

Mol Biochem Parasitol. 2000 May;108(2):169-85.

PMID: 10838220 [PubMed - indexed for MEDLINE]

7: [Figtree M, Pasay CJ, Slade R, Cheng Q, Cloonan N, Walker J, Saul A](#) Related Articles, Link

 **Plasmodium vivax synonymous substitution frequencies, evolution and population structure deduced from diversity in AMA 1 and MSP 1 genes.**
Mol Biochem Parasitol. 2000 Apr 30;108(1):53-66.
PMID: 10802318 [PubMed - indexed for MEDLINE]

8: [Narum DL, Ogun SA, Thomas AW, Holder AA](#) Related Articles, Link

 **Immunization with parasite-derived apical membrane antigen 1 or passive immunization with a specific monoclonal antibody protects BALB/c mice against lethal *Plasmodium yoelii* yoelii YM blood-stage infection.**
Infect Immun. 2000 May;68(5):2899-906.
PMID: 10768987 [PubMed - indexed for MEDLINE]

9: [Verra F, Hughes AL](#) Related Articles, Link

 **Natural selection on apical membrane antigen-1 of *Plasmodium falciparum*.**
Parassitologia. 1999 Sep;41(1-3):93-5. Review.
PMID: 10697839 [PubMed - indexed for MEDLINE]

10: [Rogers WO, Gowda K, Hoffman SL](#) Related Articles, Link

 **Construction and immunogenicity of DNA vaccine plasmids encoding four *Plasmodium vivax* candidate vaccine antigens.**
Vaccine. 1999 Aug 6;17(23-24):3136-44.
PMID: 10462250 [PubMed - indexed for MEDLINE]

11: [Sam-Yellone TY, Fujieka H, Aikawa M](#) Related Articles, Link

 **Morphological analysis of isolated rhoptries from *Plasmodium yoelii*, *P. berghei*, and *P. chabaudi* merozoites.**
Exp Parasitol. 1999 Aug;92(4):275-8. No abstract available.
PMID: 10425155 [PubMed - indexed for MEDLINE]

12: [Kocken CH, Dubbeld MA, Van Der Wel A, Pronk JT, Waters AP, Langermans JA, Thomas AW](#) Related Articles, Link

 **High-level expression of *Plasmodium vivax* apical membrane antigen 1 (AMA-1) in *Pichia pastoris*: strong immunogenicity in *Macaca mulatta* immunized with *P. vivax* AMA-1 and adjuvant SBAS2.**
Infect Immun. 1999 Jan;67(1):43-9.
PMID: 9864194 [PubMed - indexed for MEDLINE]

13: [Noe AR, Adams JH](#) Related Articles, Link

 ***Plasmodium yoelii* YM MAEBL protein is coexpressed and colocalizes with rhoptry proteins.**
Mol Biochem Parasitol. 1998 Oct 30;96(1-2):27-35.
PMID: 9851604 [PubMed - indexed for MEDLINE]

14: [Pinder JC, Fowler RE, Dluzewski AR, Barnister LH, Lavin FM, Mitchell GH, Wilson RJ, Gratzer WB](#) Related Articles, Link

 **Actomyosin motor in the merozoite of the malaria parasite, *Plasmodium falciparum*: implications for red cell invasion.**
J Cell Sci. 1998 Jul;111 (Pt 13):1831-9.
PMID: 9625746 [PubMed - indexed for MEDLINE]

15: [Kocken CH, van der Wel AM, Dubbeld MA, Narum DL, van de Rijke FM, van Gemert GJ, van der Linde X, Barnister LH, Janse](#) Related Articles, Link

C. Waters AP, Thomas AW.



Precise timing of expression of a *Plasmodium falciparum*-derived transgene in *Plasmodium berghei* is a critical determinant of subsequent subcellular localization.

J Biol Chem. 1998 Jun 12;273(24):15119-24.

PMID: 9614123 [PubMed - indexed for MEDLINE]

16: Anders RF, Crewther PE, Edwards S, Margetts M, Matthew ML, Pollock B, Pye D. [Related Articles](#) [Link](#)

 Immunisation with recombinant AMA-1 protects mice against infection with *Plasmodium chabaudi*.

Vaccine. 1998 Jan-Feb;16(2-3):240-7.

PMID: 9607037 [PubMed - indexed for MEDLINE]

17: Amante FH, Crewther PE, Anders RF, Good MF. [Related Articles](#) [Link](#)

 A cryptic T cell epitope on the apical membrane antigen 1 of *Plasmodium chabaudi adami* can prime for an anamnestic antibody response: implications for malaria vaccine design.

J Immunol. 1997 Dec 1;159(11):5535-44.

PMID: 9548494 [PubMed - indexed for MEDLINE]

18: Kappe SH, Noe AR, Fraser TS, Blair PL, Adams JH. [Related Articles](#) [Link](#)

 A family of chimeric erythrocyte binding proteins of malaria parasites.

Proc Natl Acad Sci U S A. 1998 Feb 3;95(3):1230-5.

PMID: 9448314 [PubMed - indexed for MEDLINE]

19: Fa Y, Shearing LN, Haynes S, Crewther P, Tilley L, Anders RF, Foley M. [Related Articles](#) [Link](#)

 Isolation from phage display libraries of single chain variable fragment antibodies that recognize conformational epitopes in the malaria vaccine candidate, apical membrane antigen-1.

J Biol Chem. 1997 Oct 10;272(41):25678-84.

PMID: 9325291 [PubMed - indexed for MEDLINE]

20: Khurana SK, Talib VH. [Related Articles](#) [Link](#)

 Malaria vaccine.

Indian J Pathol Microbiol. 1996 Dec;39(5):433-41.

PMID: 9002371 [PubMed - indexed for MEDLINE]

Items 1 - 20 of 37

Page of 2 [Next](#)

[Display](#) [Summary](#) [Show:](#) [Sort](#) [Send to](#) [Text](#)

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

[Department of Health & Human Services](#)

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Sep 10 2004 06:30:44

 **PALM INTRANET**

Day : Tuesday
Date: 9/14/2004
Time: 14:24:36

Inventor Name Search

Enter the first few letters of the Inventor's Last Name.
Additionally, enter the first few letters of the Inventor's First name.

Last Name**First Name**

To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | [Home page](#)



Day : Tuesday
Date: 9/14/2004
Time: 12:39:32

Inventor Name Search

Enter the first few letters of the Inventor's Last Name.

Additionally, enter the first few letters of the Inventor's First name.

Last Name

First Name

To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | [Home page](#)



Day : Tuesday
Date: 9/14/2004
Time: 12:39:32

Inventor Name Search

Enter the first few letters of the Inventor's Last Name.

Additionally, enter the first few letters of the Inventor's First name.

Last Name**First Name**

To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | [Home page](#)

 **PALM INTRANET**

Day : Tuesday
Date: 9/14/2004
Time: 12:39:32

Inventor Name Search

Enter the first few letters of the Inventor's Last Name.
Additionally, enter the first few letters of the Inventor's First name.

Last Name**First Name**

To go back use Back button on your browser toolbar.

Back to [PALM](#) | [ASSIGNMENT](#) | [OASIS](#) | [Home page](#)